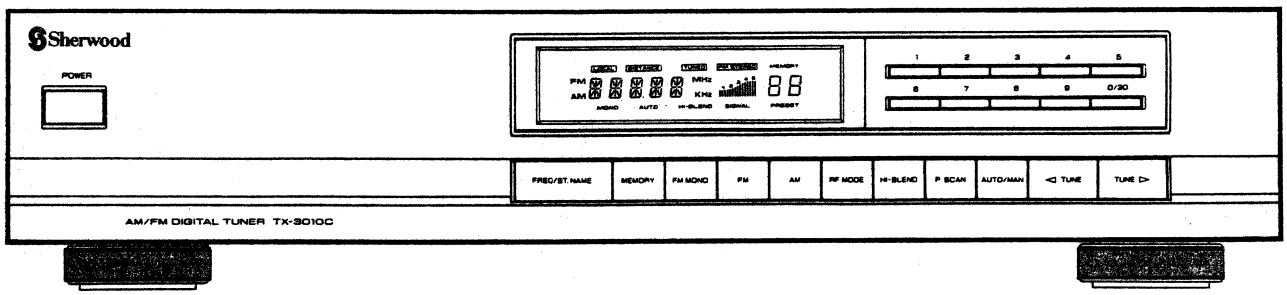
SERVICE MANUAL

TX-3010C

AM/FM
STEREO DIGITAL TUNER



■ CONTENTS

Safety Precaution 2
Specifications 3
Block Diagram 5
Circuit Description 7
Alignment Procedures 8
P.C. Boards (Top & Bottom Views) 12
Wiring Diagram 15
Exploded View (Cabinet & Chassis) 17
Electrical Parts List 19
Mechanical Parts List 22
Schematic Diagram (I)
Schematic Diagram (II) ..... Separate Sheet

Sherwood

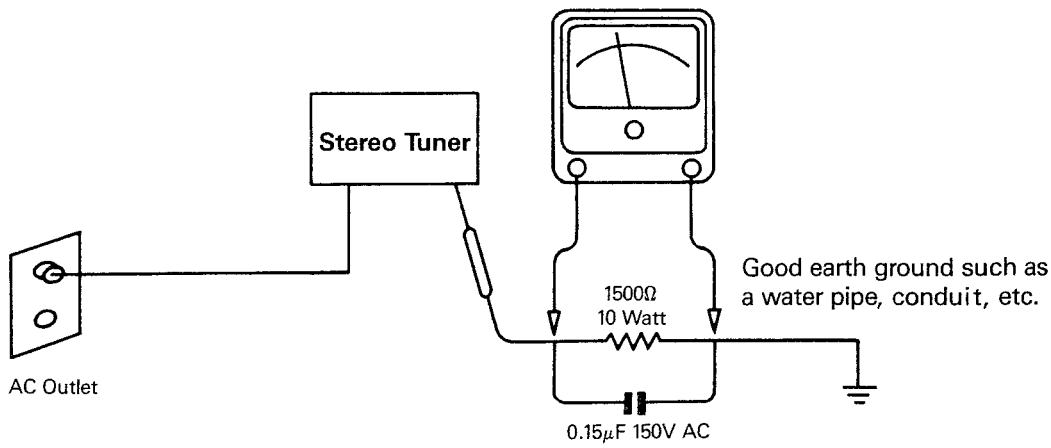
Safety Precaution

WARNING

Service should not be attempted by anyone unfamiliar with the necessary precautions on this player. The following precautions are necessary during servicing.

1. Many electrical and mechanical parts in this player have special characteristics often pass unnoticed and the protection afforded by them cannot necessarily be obtained by using replacement components rated for higher voltage, wattage, etc. Replacement parts that have these special safety characteristic are identified in this manual and its supplements: electrical components having such features are identified by a ⚠ in the schematic diagram and the parts list.
   Before replacing any of these components, read the parts list in this manual carefully.
   The use of substitute replacement parts that do not have the same safety characteristics as specified in the parts list may crear shock, fire or other hazards.
2. Before returning the set to the customer, always perform an AC leakage current check on the exposed metallic parts of the cabinet, such as terminals, screwheads, metal overlays, etc. to be sure the set is safe to operate without danger of electrical shock. Plug the AC line cord directly into, a 120V AC outlet (**120V Version only**). (Do not use a line isolation transformer during this check.) Use an AC voltmeter having 5000Ω per volt or more sensitivity in the following manner: 0.15μF, 150V AC capacitor, between a known good earth ground (water pipe, conduct, etc.) and the exposed metallic parts, one at a time. Measure the AC voltage across the combination of 1500Ω resistor and 0.15μF capacitor. Reverse the AC plug at the AC outlet and repeat AC voltage measurements for each exposed metallic parts. Voltage measured must not exceed 0.3volts RMS. This corresponds to 0.2mA AC. Any value exceeding this limit constitutes a potential shock hazard and must be corrected immediately.

AC VOLT METER
(5000Ω per volt or more sensitivity)
Reading should not exceed 0.8V



Place this probe on each exposed metallic part.

Specifications

FM Section

Tuning Range
- Scanning Frequency Interval (Auto/Manual);
  - USA/Canada version 87.50-107.90MHz/200kHz
  - Europe/Australia version 87.50-108.00MHz/50kHz

Usable Sensitivity
- IHF at S+N+D/N=30dB
  - 75 ohm (75kHz dev.) 1.5μV
- DIN at S+N+D/N=26dB
  - 75 ohm (40kHz dev.) 1.5μV

Quieting Sensitivity at 98MHz
- IHF at 75kHz dev. Mono 5μV
  - Stereo 30μV
- DIN at 40kHz dev. Mono 7μV
  - Stereo 50μV
- THD at 1kHz;
- IHF at 75kHz mod. Mono 0.2%
- (40kHz for DIN) Stereo 0.4%

Stereo Separation at 1kHz 45dB

Signal to Noise ratio
- IHF at 75 kHz mod. Mono 75dB
  - Stereo 72dB

Frequency Response 20Hz-15kHz ..... +0.5/−1dB

Audio Output voltage at 1kHz, 100% mod. ..... 600mV ± 150mV

De-emphasis;
- USA/Canada version 75μsec
- Europe/Australia version 50μsec

Capture Ratio 2dB

Alternate channel selectivity 70dB

Image Rejection 80dB

IF Rejection 100dB

AM Rejection 50dB

Muting Level 10μV

AM (MW/LW) Section

Tuning Range;
- MW USA/Canada version 520-1710kHz
  - Australia/Europe version 522-1611kHz
- LW Europe version 153-279kHz

Scanning Frequency Interval (Auto/Manual)
- USA/Canada version 10kHz
- Australia/Europe version 9kHz

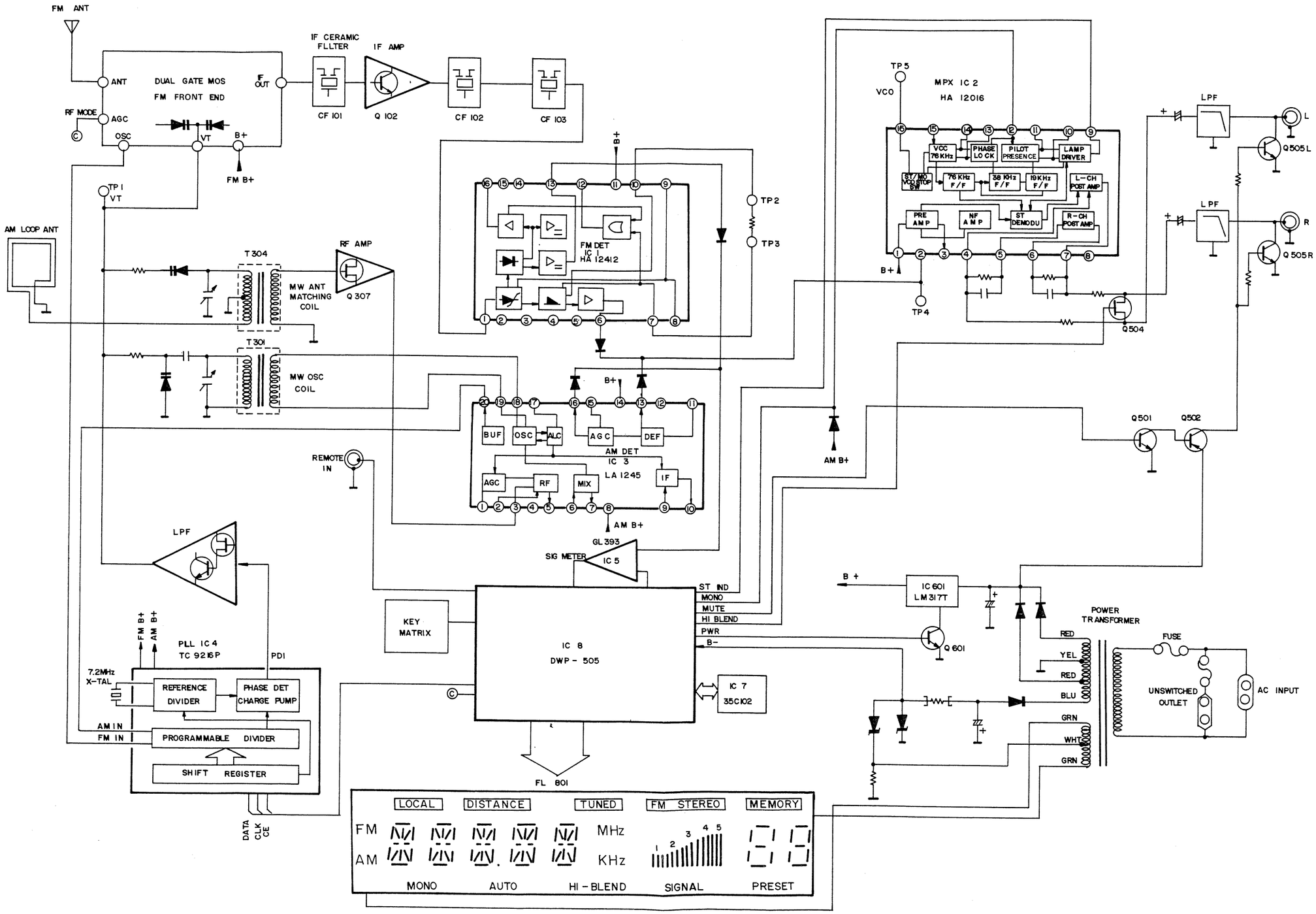
Usable Sensitivity IHF
- at 20dB S/N Loop Antenna
  - MW 500μV/m
  - LW 700μV/m

Signal to Noise ratio 30% mod. ref.
- MW 45dB
- LW 40dB

Audio Output voltage at 400Hz 30% mod. 150mV
Power Consumption 10W
Power Requirement;
A: 120V 60Hz for USA & Canadian version
B: 120/220V 60/50Hz for multi-voltage version
C: 230V 50Hz for general European version
D: 230V 50Hz for German & Italian version
E: 240V 50Hz for British & Australian version
F: 230V 50Hz for Swiss & Scandinabian version
Dimensions . . . . . 440(W)×80(H)×245(D) mm
17.3(W)×3.1(H)×9.6(D)inch
Weight(net) 3.1kg (6lbs, 13oz)

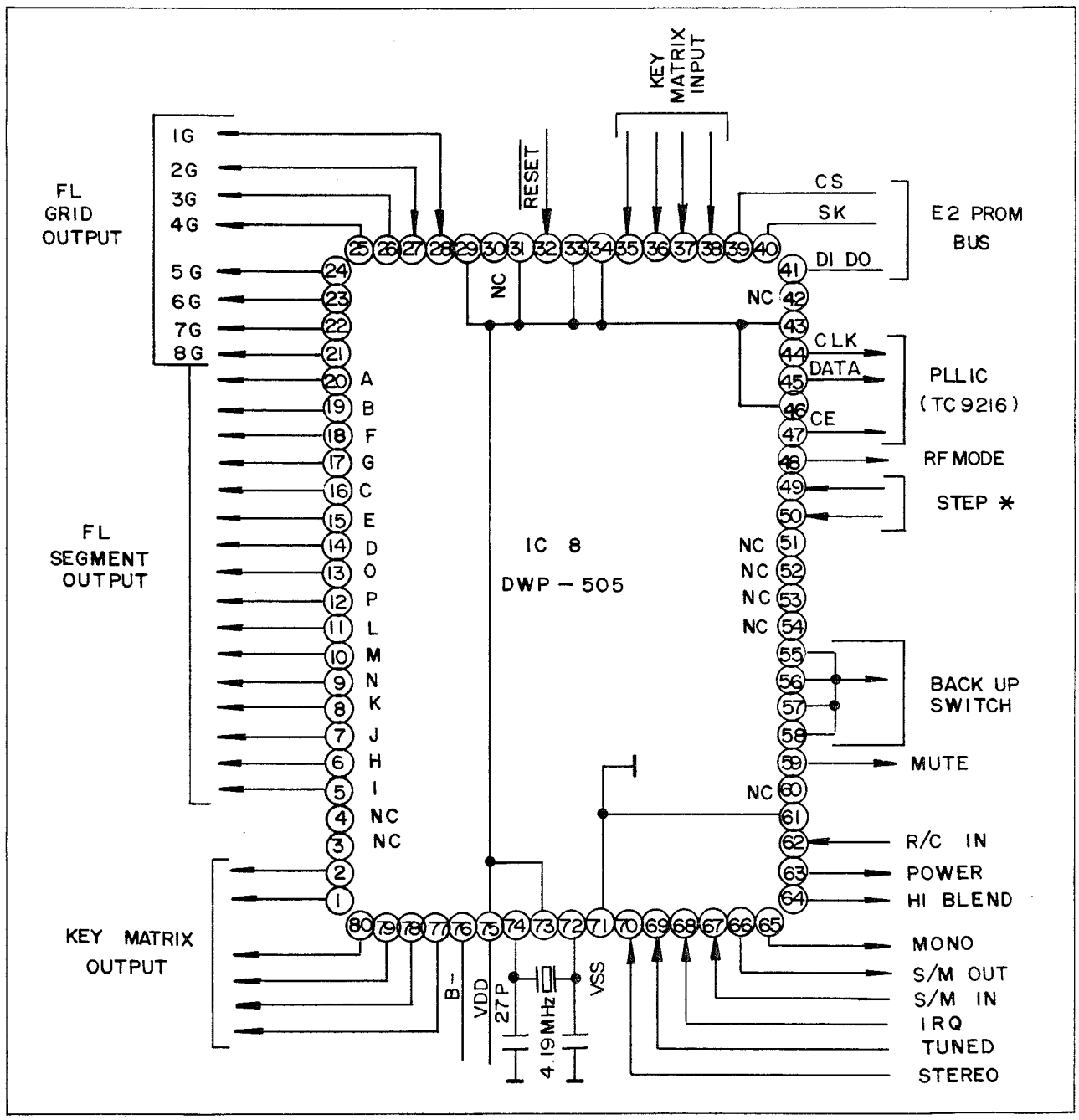
Note: Specifications and design subject to change without notice for improvements. Component and circutry are subject to modification to insure best operation under differing local conditions. This manual is based on the European standard, and provides information on regional circuit modification through use of alternate schematic diagrams, and information on regional component variations through use of parts list.

Block Diagram



Circuit Description

Pin Assignment (IC8)



Step (Band) Selector

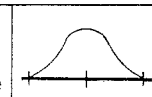
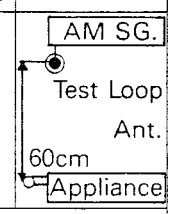
PIN NO.	P50	P49
EUROPE (3)	1	0
EUROPE (2)	0	1
U.S.A	0	0
KOREA	1	1

Alignment Procedures

* Before making adjustment, operate the appliance for more than 2 minutes.
* Note: 1.0 dB=1μ 2. FM 100% Mod.=75kHz Dev. 3. DVM=Digital Volt Meter
4. SG=Signal Generator 5. SSG=Stereo Signal Generator

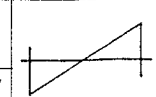
1. MW Adjustment

- Selector SW. _____ Tuner, MW/AM
- In case of 2 band appliance (AM/FM), MW is converted into AM.

No.	Subject	Feed Signal		Setting Appliance	Measure Output	Adjust Point	Adjust For	Remark
		From	To					
1.	Tuning Voltage	520kHz		*1) 520kHz	Connect DVM to TP1	T301	DC 1.2±0.2V	
		1710kHz		*2) 1710kHz		TC301	DC 8.6±0.2V	
		• Repeat the step *1) and *2) until DVM reads the tuning voltage mentioned above. • In case the freq. is 9kHz, the freq. of AM SG and sppliance should be changed to *1) 522kHz *2) 1611kHz						
2.	IF	AM IF Genescope	ANT.		Connect IF Genescope	T305	Symmetrical curve on AM IF Genescope	
3.	RF Tuning	*1) AM SG 600kHz, 74dB 400Hz (30% mod.)	ANT.	600kHz	Output Connect AC Voltmeter & Oscilloscope	T304	Maximize audio output	
		*2) AM SG 1400kHz, 74dB 400Hz (30% mod.)	ANT.	1400kHz		TC304		
		• Feed Signal should be fed to Loop ant. through the TEST Loop ant., 60cm distant from the appliance. • Repeat the steop *1) and *2) until no further improvement occurs. • In case the freq. is 9kHz, the freq. of AM SG and appliance should be changed to *1) 603kHz and *2) 1404kHz.						
4.	Tuned Level	AM SG 1000kHz, 80dB 400Hz (30% mod.)	ANT.	1000kHz	Output Connect Oscilloscope	VR301	TUNED Light on	in FIP
		• In case the freq. steop is 9kHz, the freq. of AM SG and appliance should be changed to 999kHz.						

2. LW Adjustment

- Selector SW. _____ Tuner, MW/AM
- This adjustment is nesessary to 3 band (MW/LW/FM).

No.	Subject	Feed Signal		Setting Appliance	Measure Output	Adjust Point	Adjust For	Remark
		From	To					
1.	Tuning Voltage	153kHz	279kHz	*1) 153kHz	Connect DVM to TP1	T302L	DC 2±0.2V	
				*2) 279kHz		TC302L	DC 5.5±0.2V	
		• Repeat the step *1) and *2) until DVM reads the tuning voltage mentioned above.						

No.	Subject	Feed Signal		Setting Appliance	Measure Output	Adjust Point	Adjust For	Remark
		Fron	To					
2.	RF Tuning	*1) AM SG 162kHz, 80dB 400Hz (30% mod.)	ANT.	162kHz	Output Connect AC Voltmeter & Oscilloscope	T303L	Maximize audio output	
		*2) AM SG 252kHz, 80dB 400Hz (30% mod.)		252kHz		TC303L		
		• Feed Signal should be fed to Loop ant. through the Test Loop ant., 60cm distant from the appliance. • Repeat the step *1) and *2) until no further improvement occurs.						

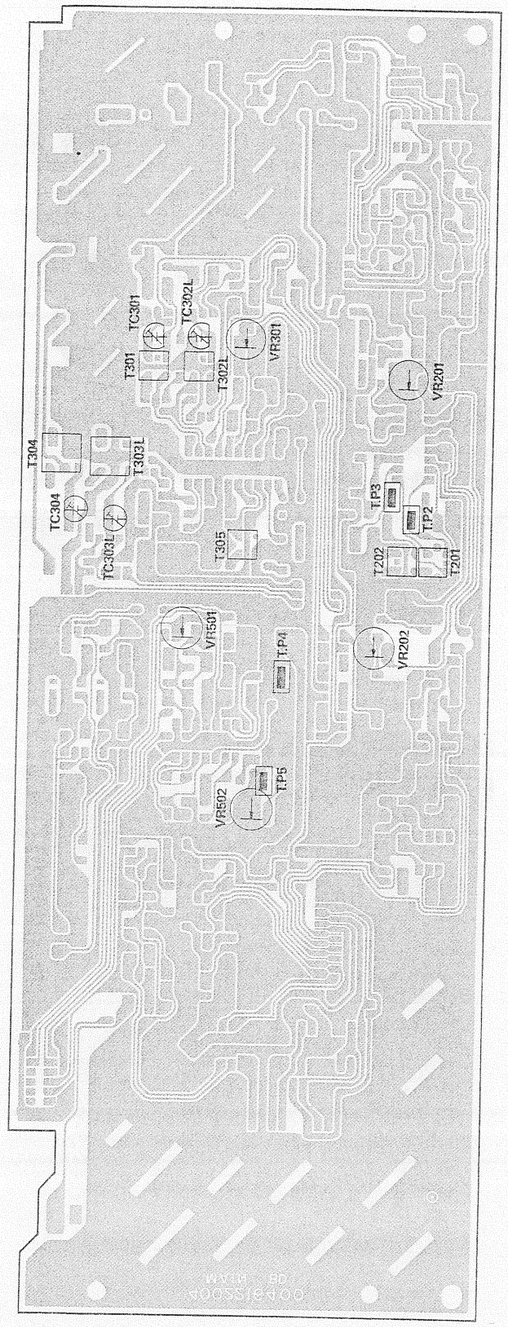
3. FM Adjustment

- Selector SW. ____ TUNER, FM (Mono/Stereo)
- Deviation ____ USA/Canada (75 kHz Dev.)
  Europe (40 kHz Dev.)

No.	Subject	Feed Signal		Setting Appliance	Measure Output	Adjust Point	Adjust For	Remark
		From	To					
1.	Turing Voltage			87.50 MHz	Connect DVM	TP1	DC 2.0±0.2V	
				107.90 MHz			DC 8.0±0.2V	
2.	IF	FM IF Genescope	ANT.	98.10MHz 60dB	TP2 & TP3 Connect IF Genescope	T201	Symmetrical S curve on FM IF Genescope	
					TP2 & TP3 Connect DVM		DC 0±50mV	
				Detune	Connect Oscilloscope	T201	Maximize noise output	In case IF Genescope is not available
					TP2 and TP3 Connect DVM		DC 0±50mV	
3.	THD (Mono)	FM SG 98.10MHz, 60dB 1kHz (75kHz dev.)	ANT.	98.10MHz Mono	*1) Output Connect DVM	T201	DC 0±0.05V	TP 2 and TP3
					*2) Output Connect AC Voltmeter & Distortion Analyzer	T202	Minimize distortion	
		• Adjust the step *1) 1st and the step *2) next and repeat until no further improvement occurs.						
4.	MPX (VCO)	FM SSG 98.10MHz, 60dB 1kHz (75kHz dev.) Pilot 19kHz (9% mod.)	ANT.	98.10MHz Stereo	TP5 Connect freq. Counter	VR502	Read 76kHz	
		• Before adjustment, set the FM SSG to 'Mod. Off'.						

No.	Subject	Feed Signal		Setting Appliance	Measure Output	Adjust Point	Adjust For	Remark
		Fron	To					
5.	THD (Stereo)	FM SSG 98.10MHz, 60dB 1kHz (75kHz dev.) Pilot 19kHz (9% Mod.)	ANT.	98.10MHz Stereo	Output connect AC voltmeter & distortion	Front- End IFT	Minimize distortion	
6.	Mute Level	FM SG 98.0MHz, 10μV 1kHz (75kHz dev.) (40kHz dev. for Europe)	ANT.	98.10MHz Stereo	Output connect Oscilloscope	VR201	Muting occurs marginally	
7.	Separa- tion	*1) FM SSG 98.10MHz, 60dB 1kHz (75kHz, dev) Pilot 19kHz (9% mod) (L ch->R ch)	ANT.	98.10MHz Stereo	R ch Mod connect AC voltmeter & distortion analyzer and oscilloscope	VR501	Minimize output	L ch Mode
		*2) Same as above R ch->L ch			L ch Mod connect same as above		Minimize output	R ch Mode
		• Repeat the step *1) & *2) until no further improvement occurs.						
8.	Sig Level Adj	FM SSG 98.10MHz, 60dB 1kHz (75kHz dev) (40kHz dev for Europe)	ANT.	98.10MHz MONO	FL Display	VR202	Level Meter	Fully Lit

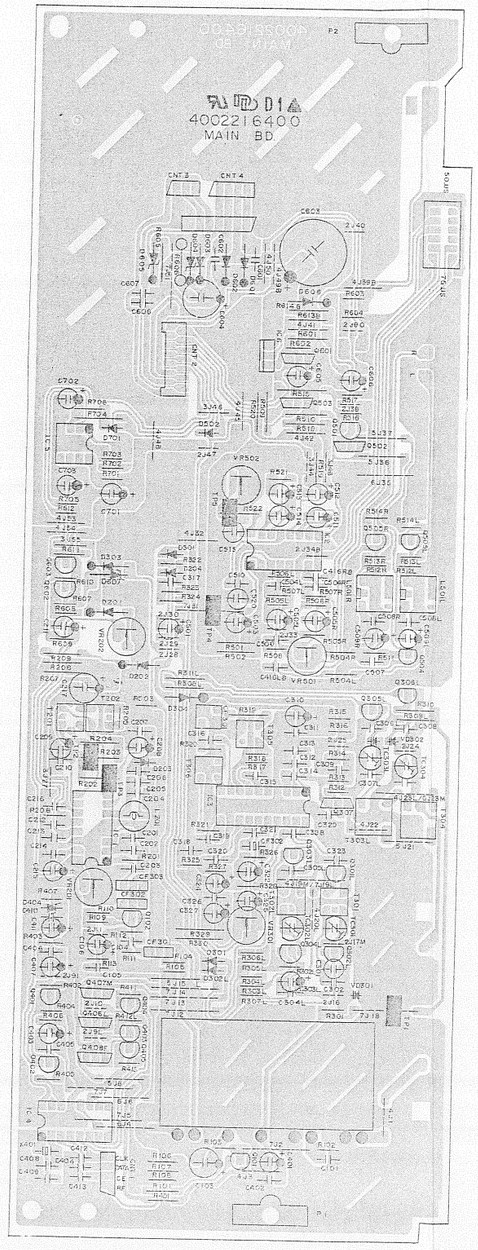
ADJUSTMENT POINT



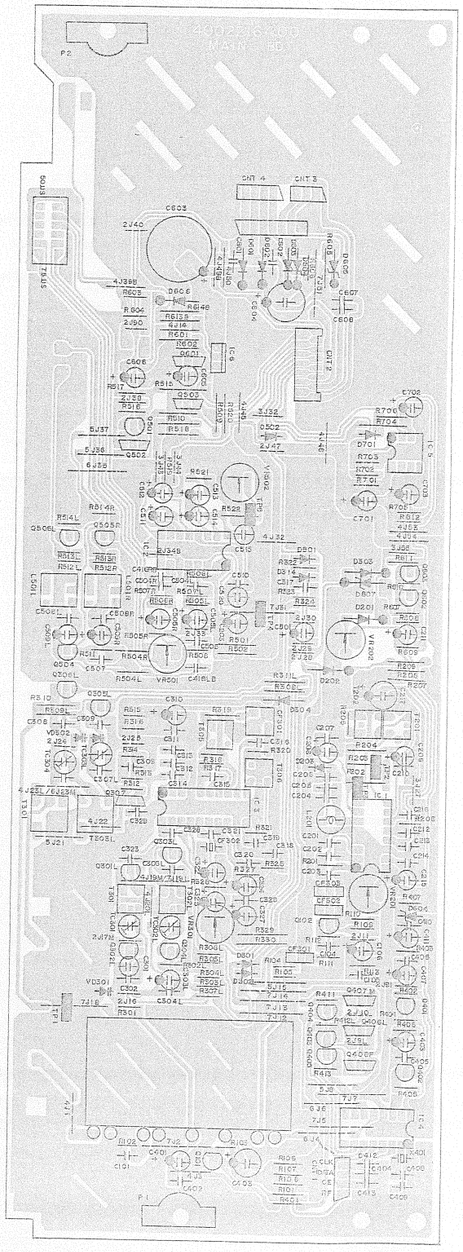
P.C. Boards (Top & Bottom Views)

MAIN P.C. BOARD 4002216400

(TOP VIEW)

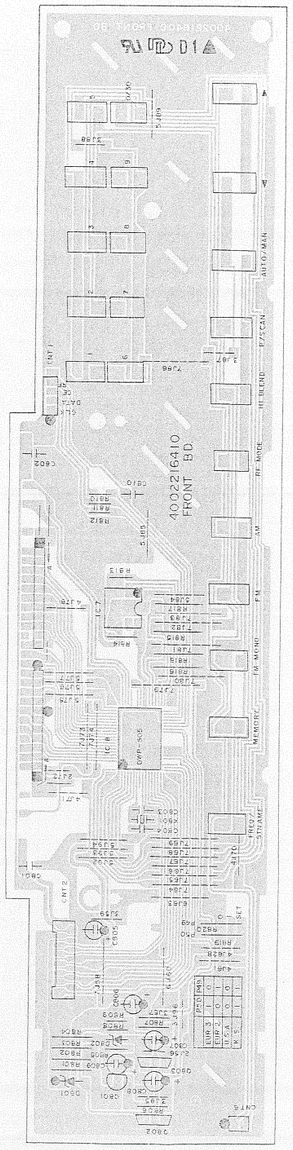


(BOTTOM VIEW)

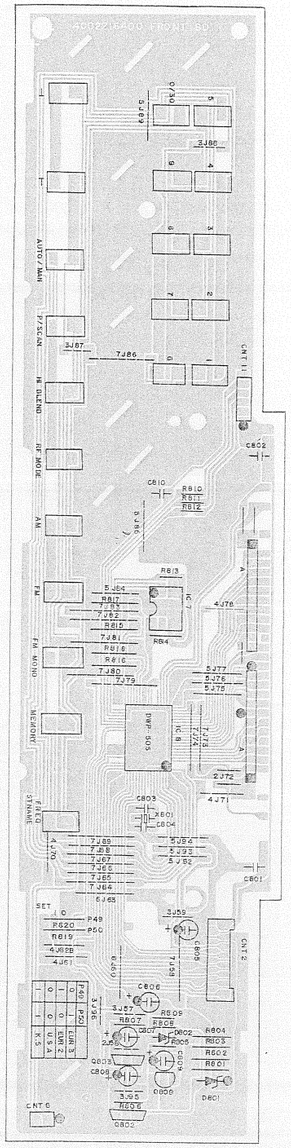


FRONT P.C. BOARD 4002216410

(TOP VIEW)

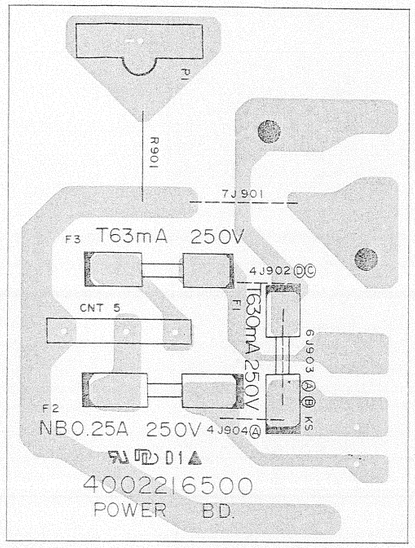


(BOTTOM VIEW)

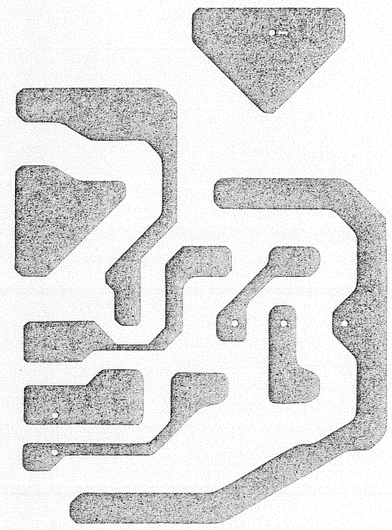


POWER P.C. BOARD 4002216500

(TOP VIEW)

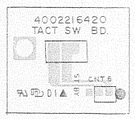


(BOTTOM VIEW)

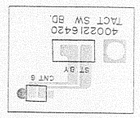


TACT SW P.C. BOARD 4002216420

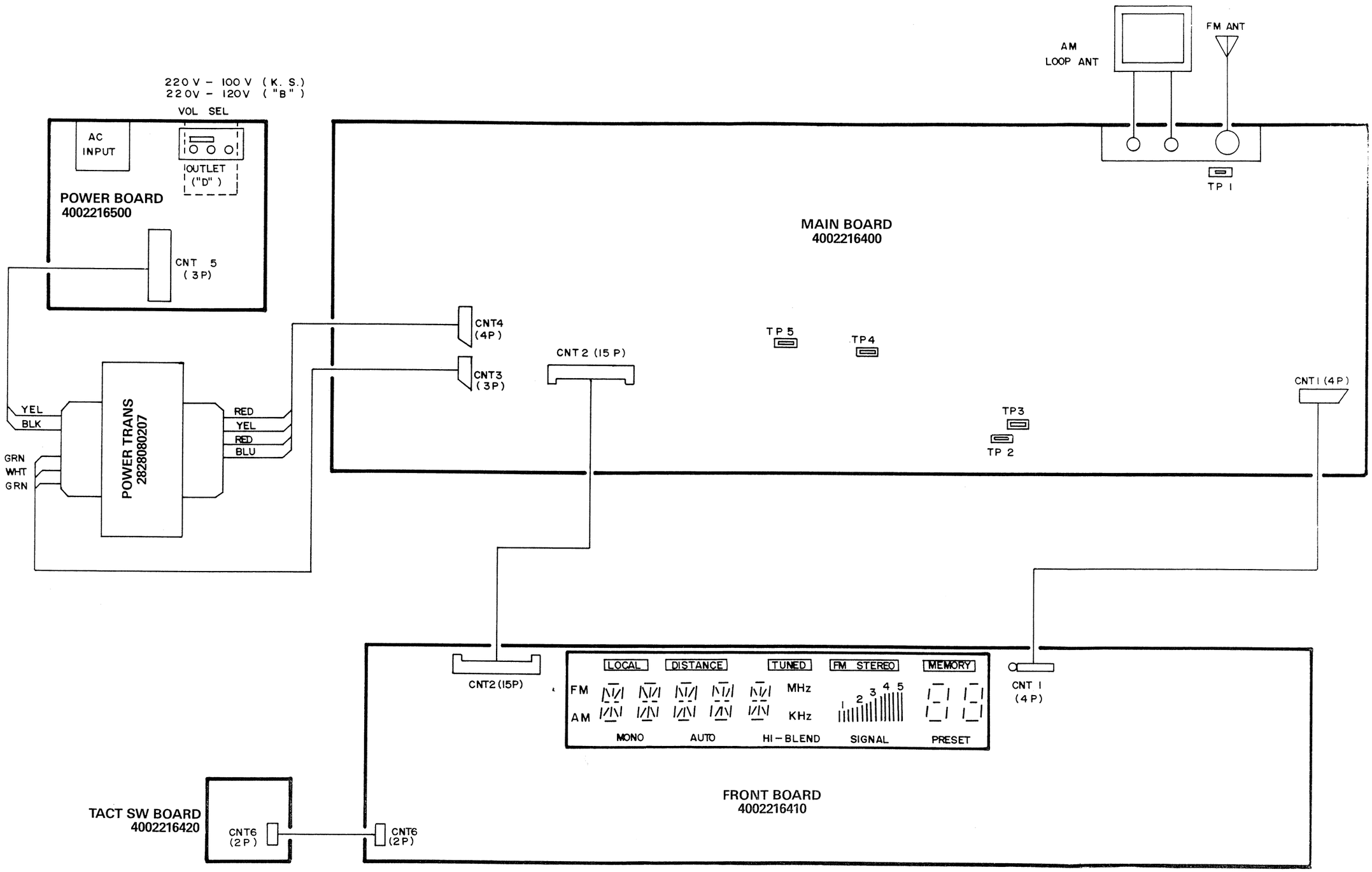
(TOP VIEW)



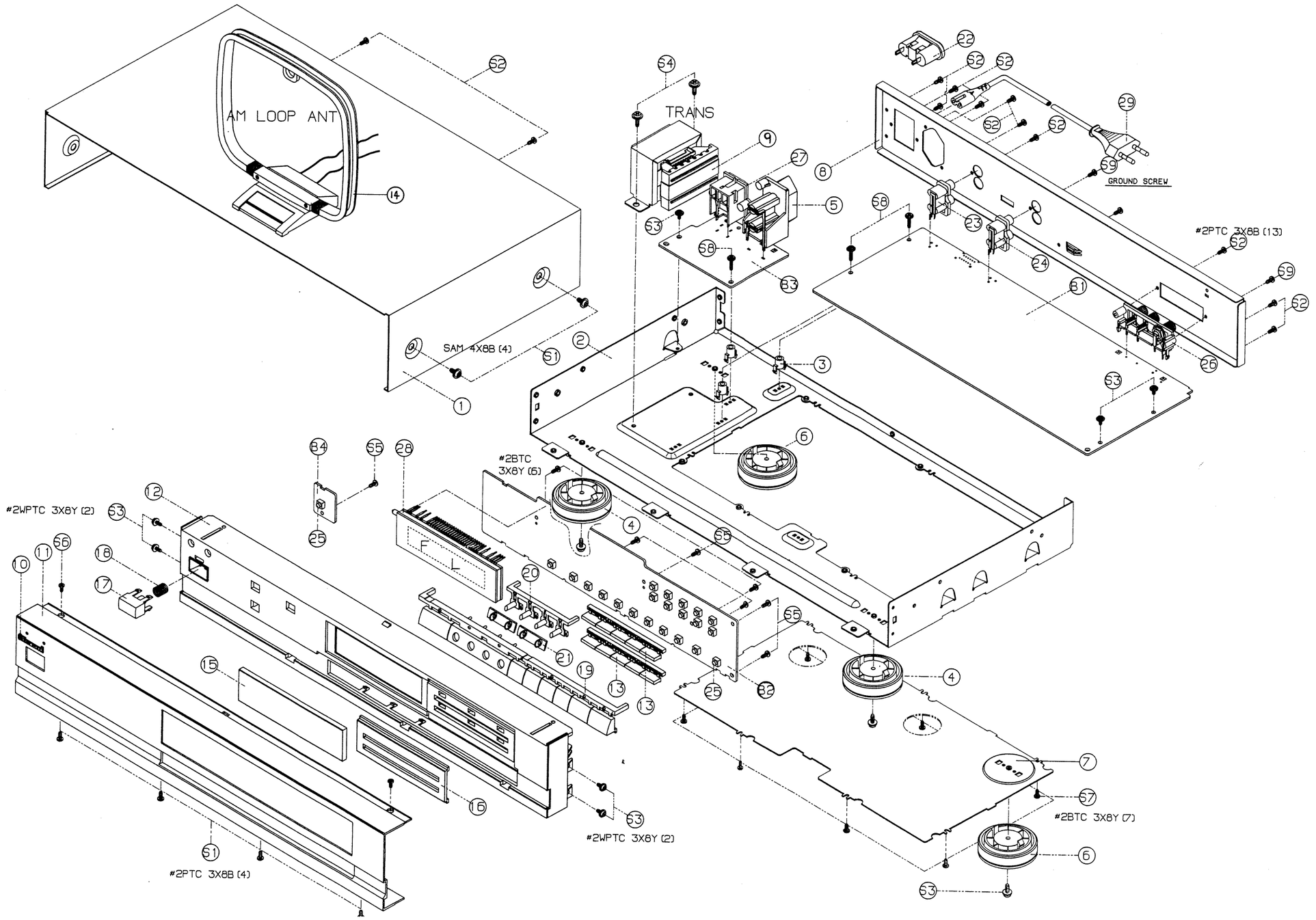
(BOTTOM VIEW)



Wiring Diagram



Exploded View (Cabinet & Chassis)



Electrical Parts List

PRODUCT SAFETY NOTICE: Products marked with ⚠ have special characteristics important to safety. If you replace any of these components, carefully read the product safety notice of this manual. Don't degraded the safety of the product through improper servicing. Remark meaning for version, refer to power requirement of Specifications in this manual. Resistors & Capacitors tolerance, D: (±5%), J: (±0.5%), K: (±10%), M: (±20%), Z: (+80%, −20%).

Ref. No.	Part No.	Description	Remark
Main Board 4002216400			
Capacitors			
C101/C102	3519223520	Ceramic 0.022μF 25V Z	
C103	3479310141	Electric SA 100μF 25V M	
C104/C105	3519223520	Ceramic 0.022μF 25V Z	
C106	3479322071	Electric SA 22μF 50V M	
C201-C203	3519223520	Ceramic 0.022μF 25V Z	
C204	3519331935	Ceramic 330pF 50V K	
C205/C206	3519101935	Ceramic 100pF 50V K	D
C207	3519223520	Ceramic 0.022μF 25V Z	
C208	3479247871	Electric SA 0.47μF 50V M	
C209/C211	3479210971	Electric SA 1μF 50V M	
C210/C216	3519223520	Ceramic 0.022μF 25V Z	
C212-C214	3519223520	Ceramic 0.022μF 25V Z	
C215	3479210971	Electric SA 1μF 50V M	
C217	3479347041	Electric SA 47μF 25V M	
C301	3619471110	Poly 470pF 50V J	
C302	3529180210	Ceramic CH 18pF 50V J	
C303L	3619181110	Poly 180pF 50V J	LW only
C304L/C307L	3529100210	Ceramic CH 10pF 50V J	LW only
C305L	3519223520	Ceramic 0.022μF 25V Z	LW only
C306L	3579103130	Ceramic 0.01μF 50V J	LW only
C308	3679104297	Mylar 0.1μF 63V K	
C309	3519223520	Ceramic 0.022μF 25V Z	
C310	3479322071	Electric SA 22μF 50V M	
C311-C316	3519223520	Ceramic 0.022μF 25V Z	
C317	3679473120	Mylar 0.047μF 100V J	
C318	3679333120	Ceramic 0.033μF 100V J	
C319	3519102935	Ceramic 0.001μF 50V K	
C320	3579103130	Ceramic 0.01μF 50V J	
C321/C323	3519223520	Ceramic 0.022μF 25V Z	
C322/C324	3479247971	Electric SA 4.7μF 50V M	
C325	3479233971	Electric SA 3.3μF 50V M	
C326/C328	3519223520	Ceramic 0.022μF 25V Z	
C327	3479347041	Electric SA 47μF 25V M	
C329	3519221935	Ceramic 220pF 50V K	
C401	3479222871	Electric SA 0.22μF 50V M	
C402/C406	3519223520	Ceramic 0.022μF 25V Z	
C403	3479210971	Electric SA 1μF 50V M	
C404	3519221935	Ceramic 220pF 50V K	
C405	3579103130	Ceramic 0.01μF 50V J	
C407/C411	3479322071	Electric SA 22μF 50V M	
C408/C409	3529330210	Ceramic CH 33pF 50V J	
C410	3519223520	Ceramic 0.022μF 25V Z	
C412/C413	3519221935	Ceramic 220pF 50V K	
C501	3479222971	Electric SA 2.2μF 50V M	
C502	3619681110	Poly 680pF 50V J	
C503	3479310141	Electric SA 100μF 25V M	
C504L/R	3679102120	Mylar 0.001μF 100V J	
C505L/R	3479322071	Electric SA 22μF 50V M	

Ref. No.	Part No.	Description	Remark
C506	3519151935	Ceramic 150pF 50V K	
C507	3679153120	Mylar 0.015μF 100V J	
C508L/R	3679222120	Mylar 0.0022μF 100V J	
C509L/R	3479222971	Electric SA 2.2μF 50V M	
C510	3679473120	Mylar 0.047μF 100V J	
C511/C513	3479233971	Electric SA 3.3μF 50V M	
C512/C514	3479210971	Electric SA 1μF 50V M	
C515	3619102110	Poly 1000pF 50V J	
C601/C602	3609563120	Mylar 0.068μF 100V J	
C603	3409310249	Electric SA 1000μF 25V M	
C604	3479347071	Electric SA 47μF 50V M	
C605	3479247971	Electric SA 4.7μF 50V M	
C606	3479322071	Electric SA 22μF 50V M	
C607/C608	3519223520	Ceramic 0.022μF 25V Z	
C701	3479322071	Electric SA 22μF 50V M	
C702	3479210971	Electric SA 1μF 50V M	
C703	3479247871	Electric SA 0.47μF 50V M	
TC301	3838001000	Trimmer TZ03T110F	
TC302L	3838001010	Trimmer TZ03T200F	LW only
TC303L	3838001010	Trimmer TZ03T200F	LW only
TC304	3838001010	Trimmer TZ03T200F	
Connectors			
CNT1	4428505610	Plug 4P	
CNT2	4428526270	Plug 15P	
CNT3	4428505710	Plug 3P	
CNT4	4428505610	Plug 4P	
Coils			
T201	2838501110	FM DET A	
T202	2838501120	FM DET B	
L201	2648601430	20.8mH	D
L301	2638201150	MW OSC	
L302L	2638401060	LW OSC	LW only
L303L	2608207352	MW ANT	LW only
L304	2608201130	LW ANT	
L305	2848001110	AM IFT A	
L306	2848001070	AM IFT B	
L501L/R	2658001050	MPX 19kHz Black	
Diodes			
D201-D204	2058322101	1N4148	
D301	2058322101	1N4148	
D302L	2058322101	1N4148	
D303/D304	2058322101	1N4148	

Ref. No.	Part No.	Description	Remark
D401	2258522110	MTZ 5.1B	
D501/D502	2058322101	1N4148	
D601-D603	2258106100	1N4002	
D604	2258522127	MTZ 27B	
D605	2258522112	MTZ6.2B	
D606	2058322101	1N4148	
D607	2258522106	MTZ 3.3B	
D701	2058322101	1N4148	
VD301/VD302	2058819106	KV1236Z	MW only
VD301	2058819105	KV1235Z	MW+LW only
VD302	2058819105	KV1235Z	MW+LW only
Filters			
CF101-CF103	3908011011	SFE 10.7MS3G	
CF301	3908001010	SFP450H	
CF302	3908001020	BFU450C4N	
IC's			
IC1	2168411106	HA12412	
IC2	2168411105	HA12016	
IC3	2168417100	LA1245	
IC4	2168007205	TC9216P	
IC5	2168801100	GL393	
IC6	2168600112	LM317T	
Resistors: All Resistors are 1/5W carbon ±5% tolerance, unless otherwise specified. M is metal film, M.O is metal oxide and C is cement type.			
R101	3069472970	4.7kΩ	
R102	3069473970	47kΩ	
R103	3069104970	100kΩ	
R104	3069181970	180Ω	
R105	3069561970	560Ω	
R106-R108	3069221970	220Ω	
R109	3069332970	3.3kΩ	
R110/R112	3069331970	330Ω	
R111	3069561970	560Ω	
R113	3069221970	220Ω	
R201	3069331970	330Ω	
R202	3069102970	1kΩ	
R203	3069183970	18kΩ	
R204	3069333970	33kΩ	
R205	3069332970	3.3kΩ	
R206	3069473970	47kΩ	
R207/R208	3069221970	220Ω	
R209	3069472970	4.7kΩ	
R301L	3069104970	100kΩ	
R302L	3069155970	1.5MΩ	LW only
R303L-R305L	3069473970	47kΩ	LW only
R306L	3069104970	100kΩ	LW only
R307L/R308L	3069473970	47kΩ	LW only
R309L	3069104970	100kΩ	LW only
R310L	3069104970	100kΩ	
R311L	3069473970	47kΩ	LW only
R312	3069820970	82Ω	

Ref. No.	Part No.	Description	Remark
R313	3069821970	820Ω	
R314	3069471970	470Ω	
R315/R316	3069221970	220Ω	
R317	3069152970	1.5kΩ	
R318	3069104970	100kΩ	
R319	3069272970	2.7kΩ	
R320	3069222970	2.2kΩ	
R321	3069101970	100Ω	
R322	3069104970	100kΩ	
R323	3069272970	2.7kΩ	
R324	3069222970	2.2kΩ	
R325	3069102970	1kΩ	
R326	3069820970	82Ω	
R327/R328	3069103970	10kΩ	
R329/R330	3069221970	220Ω	
R401	3069102970	1kΩ	
R402	3069103970	10kΩ	
R403	3069221970	220Ω	
R404	3069101970	100Ω	
R405	3069821970	820Ω	
R406	3069152970	1.5kΩ	
R407	3069331970	330Ω	
R408-R410	·	Not used !	
R411/R413	3069472970	4.7kΩ	
R412L	3069472970	4.7kΩ	LW only
R501/R502	3069221970	220Ω	
R503	3069104970	100kΩ	
R504L/R	3069182970	1.8kΩ	
R505L/R	3069392970	3.9kΩ	
R506L/R	3069223970	22kΩ	
R507L/R	3069473970	47kΩ	
R508	3069392970	3.9kΩ	
R509	3069224970	220kΩ	
R510	3069335970	3.3MΩ	
R511	3069104970	100kΩ	
R512L/R	3069332970	3.3kΩ	
R513L/R	3069102970	1kΩ	
R514L/R	3069332970	3.3kΩ	
R515	3069472970	4.7kΩ	
R516	3069224970	220kΩ	
R517	3069563970	56kΩ	
R518/R519	3069223970	22kΩ	
R520	3069393970	39kΩ	
R521	3069102970	1kΩ	
R522	3069682970	6.8kΩ	
R601	3069181970	180Ω	
R602	3069182970	1.8kΩ	
R603	3069223970	22kΩ	
R604	3069224970	220kΩ	
R605	3069103970	10kΩ	
R606	3069331970	330Ω	
R607	3069123970	12kΩ	
R608/R610	3069473970	47kΩ	
R609	3069102970	1kΩ	
R611	3069103970	10kΩ	
R612	3069562970	5.6kΩ	
R613B/R614B	·	Not used !	
R701	3069271970	270Ω	
R702	3069103970	10kΩ	

Ref. No.	Part No.	Description	Remark
R703	3069622970	6.2kΩ	
R704	3069683970	68kΩ	
R705	3069474970	470kΩ	
R706	3069472970	4.7kΩ	
VR201/VR202	3248050343	50KB	
VR301	3248020343	20KB	
VR501	3248020443	200KB	
VR502	3248020243	2KB	
Transistors			
Q101	2208606104	KTC1815Y	
Q102	2008409101	LM9018F	
Q301L-Q306L	2208606104	KTC1815	LW only
Q307	2018207115	2SK192GR	
Q401	2208606108	KTC2240BL	
Q402	2018211100	2SK168D	
Q403-Q405	2208606104	KTC1815Y	LW only
Q406L	2008622105	DTA114YS	LW only
Q407M	2008622105	DTA114YS	
Q408F	2008622105	DTA114YS	
Q501	2208606104	KTC1815Y	
Q502/Q503	2008622104	DTA114TS	
Q504	2018207106	2SK117	
Q505L/R	2208606104	KTC1815Y	
Q601	2008622104	DTC114TS	
Q602/Q603	2208606104	KTC1815Y	
Others			
X-TAL401	3908101030	HC-18/V 7.2MHz	
FM F.E	3928801890	FM Front-End Pack (FE407-G60)	
P1/P2	4235006810	Ground Plate	

Front Board 4002216400

Ref. No.	Part No.	Description	Remark
Capacitors			
C801/C802	3519223520	Ceramic 0.022μF 25V Z	
C803/C804	2519270935	Ceramic 27pF 50V J	
C805/C806	3479322121	Electric SA 220μF 10V M	
C807	3479222871	Electric SA 0.22μF 50V M	
C808	3479210971	Electric SA 1μF 50V M	
C809	3479322071	Electric SA 22μF 50V M	
C810	3519223520	Ceramic 0.022μF 25V Z	
Connectors			
CNT1	4119104243	Ass'y 4P 240mm	
CNT2	4428526270	Plug 15P	
CNT3	4119102122	Slat Wire 2P 120mm	
Diodes			
D801	2258522120	MTZ 13B	
D802	2258522111	MTZ 5.6B	
IC's			
IC7	2108499101	CAT 35C102P	
IC8	2138322108	CXP 50112 (DWP-505)	
Resistors			
R801-R804	3069102970	1kΩ	
R805	3069681970	680Ω	
R806	3069332970	3.3kΩ	
R807	3069334970	330kΩ	
R808	3069102970	1kΩ	
R809	3069822970	8.2kΩ	
R810-R812	3069272970	2.7kΩ	
R813	3069472970	4.7kΩ	
R814	3069104970	100kΩ	
R815-R818	3069473970	47kΩ	
R819/R820	3069103970	10kΩ	
Transistors			
Q801	2208606104	KTC1815Y	
Q802-Q803	2008622104	DTC114TS	
Others			
X801	3938131460	CSA 4.19MG	
·	2328130922	FIP 8CPM 8	
·	4002216420	Tact Switch Board	

Power Board 4002216500

Ref. No.	Part No.	Description	Remark
Connector			
CNT5	4428525790	Connector, Plug 3P	
F1	5508301735	Fuse, T 630mA 250V	
F3	5508300534	Fuse, T 63mA 250V	
·	4255001010	Fuse, Clip	

Power Trans Board 4002216500

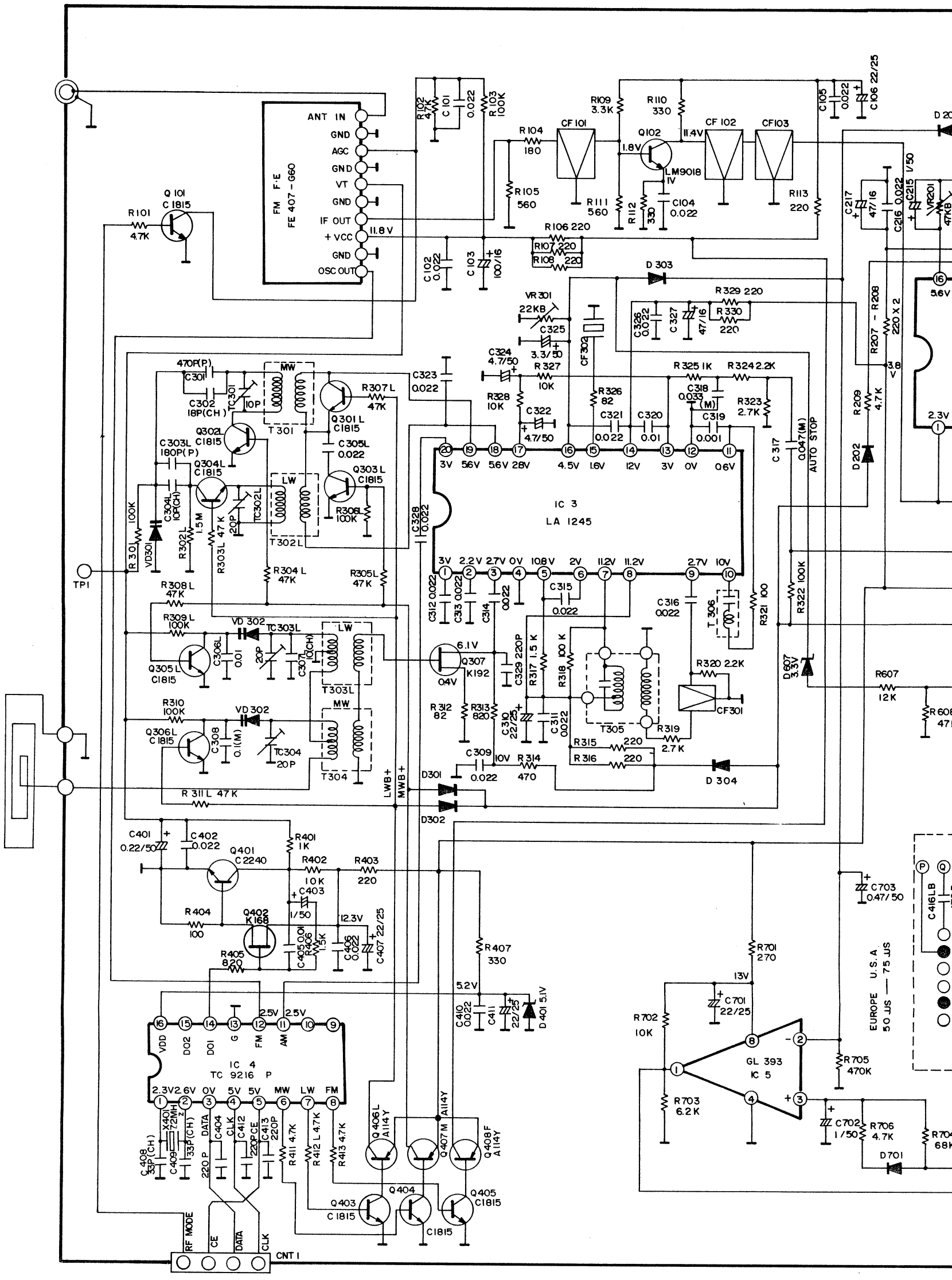
Ref. No.	Part No.	Description	Remark
Other			
·	4118615250	Ban Card 15P 250mm	

Mechanical Parts List

No.	Description	Parts No.	Q'ty	Remark
1	Cover Top, Black	046122021011	1	
2	Chassis Main	6121605510	1	
3	Spacer, Black	6705004220	3	
4	Foot(A), (AL, Gold)	046033101711	2	Domestic
(4)	Foot(A), Gold H/Stamp	046033101811	2	
5	Outlet AC, Black	4448103610	1	C,D
6	Foot, AL Gold	046033101711	2	Domestic
(6)	Foot, Gold H/Stamp	046033101811	2	A
(6)	Foot, Black	6033101810	2	B,C,D,E,F
7	Cover Bottom	6123407610	1	
8	Chassis Back, Black	046102028512	1	Domestic
(8)	Chassis Back, Black	046102028522	1	A
(8)	Chassis Back, Black	046102028532	1	B
(8)	Chassis Back, Black	046102028542	1	C
(8)	Chassis Back, Black	046102028552	1	D
(8)	Chassis Back, Black	046102028562	1	E
(8)	Chassis Back, Black	046102028572	1	F
9	Power Transformer	4002216500	1	D
10	Badge, Sherwood	048535031911	1	
(10)	Badge	048535032511	1	Domestic
11	Panel Front, Black	048602017611	1	
12	Body Front, Black	048521006911	1	
13	Button Tact Preset	8543027110	2	
14	Antenna Loop	2608207360	1	
15	Window Display	0485555034111	1	
16	Cover AL, Black	048505000211	1	
17	Button Power, Black	8545074310	1	
18	Button Spring	6555004380	1	
19	Button Tact, A, Black	048543027311	1	Domestic, A,B
(19)	Button Tact, B, Black	048543027411	1	C,D,E,F
20	Button Tact, C, Black	8543027510	1	Domestic, A,B
21	Bezel, Gold	048525007410	2	Domestic, A,B
22	Outlet, Black	4448100410	1	Domestic
23	Jack RCA	4438105610	1	
24	Jack Digilink	4438105010	1	
25	Switch Tact	4658003710	22	
26	Terminal Antenna	4408001510	1	A
(26)	Terminal Antenna	4408001610	1	C,D,E,F
27	Socket AC Power, Black	4448003110	1	A,B
(27)	Socket AC Power, Black	4448003010	1	Domestic, C,D,E,F
28	FL	·		
29	Cord AC Power	4308005710	1	A,B
(29)	Cord AC Power	4308001810	1	Domestic
(29)	Cord AC Power	4308002010	1	C,D
(29)	Cord AC Power	4308006010	1	E,F
·	Cord RCA	4328200510	1	
·	Cord Digilink	4328204510	1	
Screws				
S1	WSAM 4×8 ZNB	8159440083	4	
S2	#2PTC 3×8 ZNB	8119230083	19	
S3	#2WPTC 3×8 ZNY	8159230081	7	
S4	WSAM 4×8 ZNY	8159440081	2	
S5	#2BTC 3×8 ZNY	8109230081	8	
S6	#2FTC 3×8 ZNY	8129230081	2	
S7	#2BTC 3×6 ZNY	8109230061	7	
S8	#2WPTC 3×16 ZNY	8159230161	3	
S9	Ground	8155000710	2	

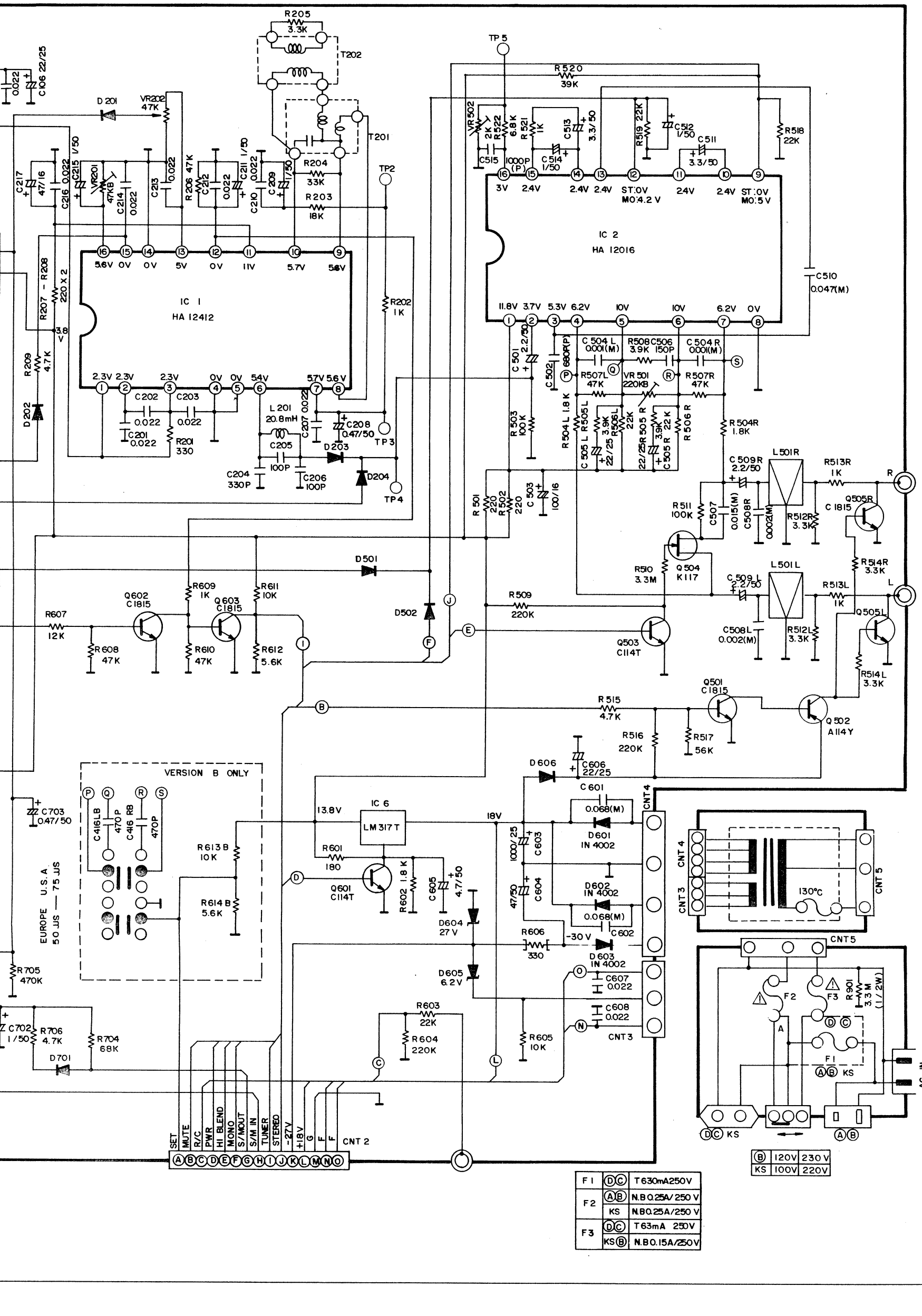
Schematic D

TX-3010



ematic Diagram (I)

TX-3010C

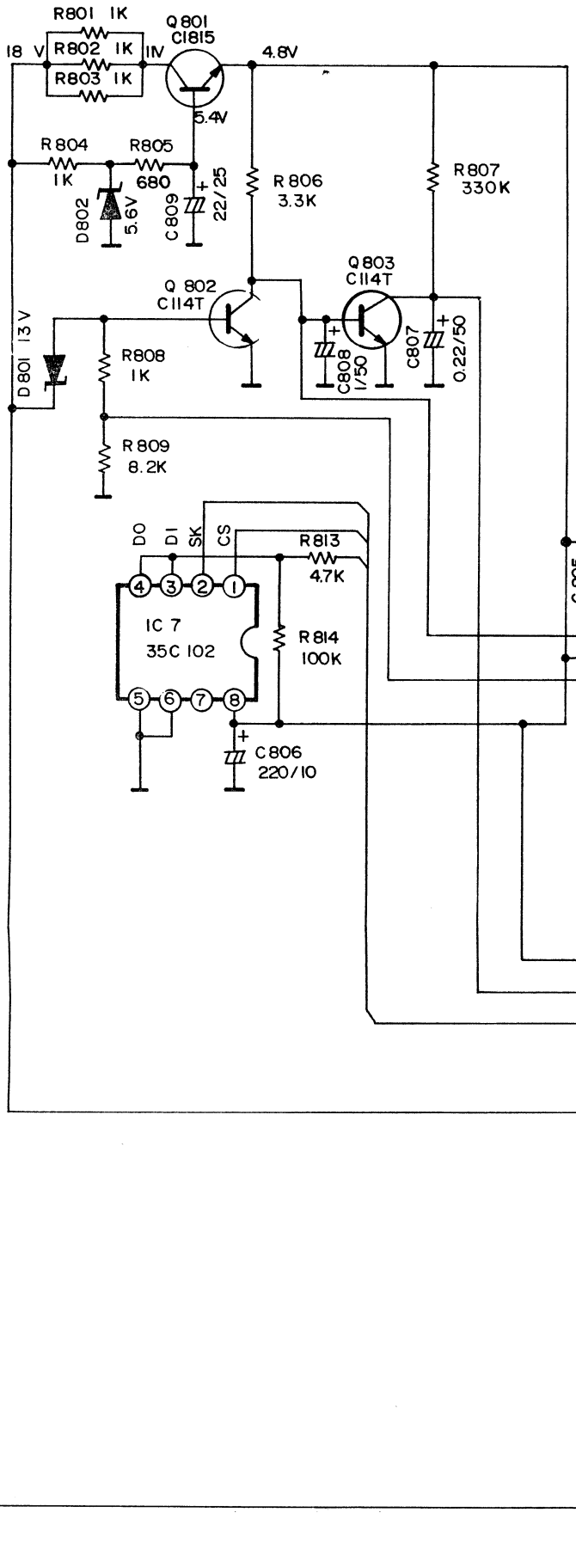


F1	DC	T630mA250V
F2	AB	N.B 0.25A/250V
	KS	N.B 0.25A/250V
F3	DC	T63mA 250V
	KS B	N.B 0.15A/250V

B	120V	230V
KS	100V	220V

Schematic D

TX-301

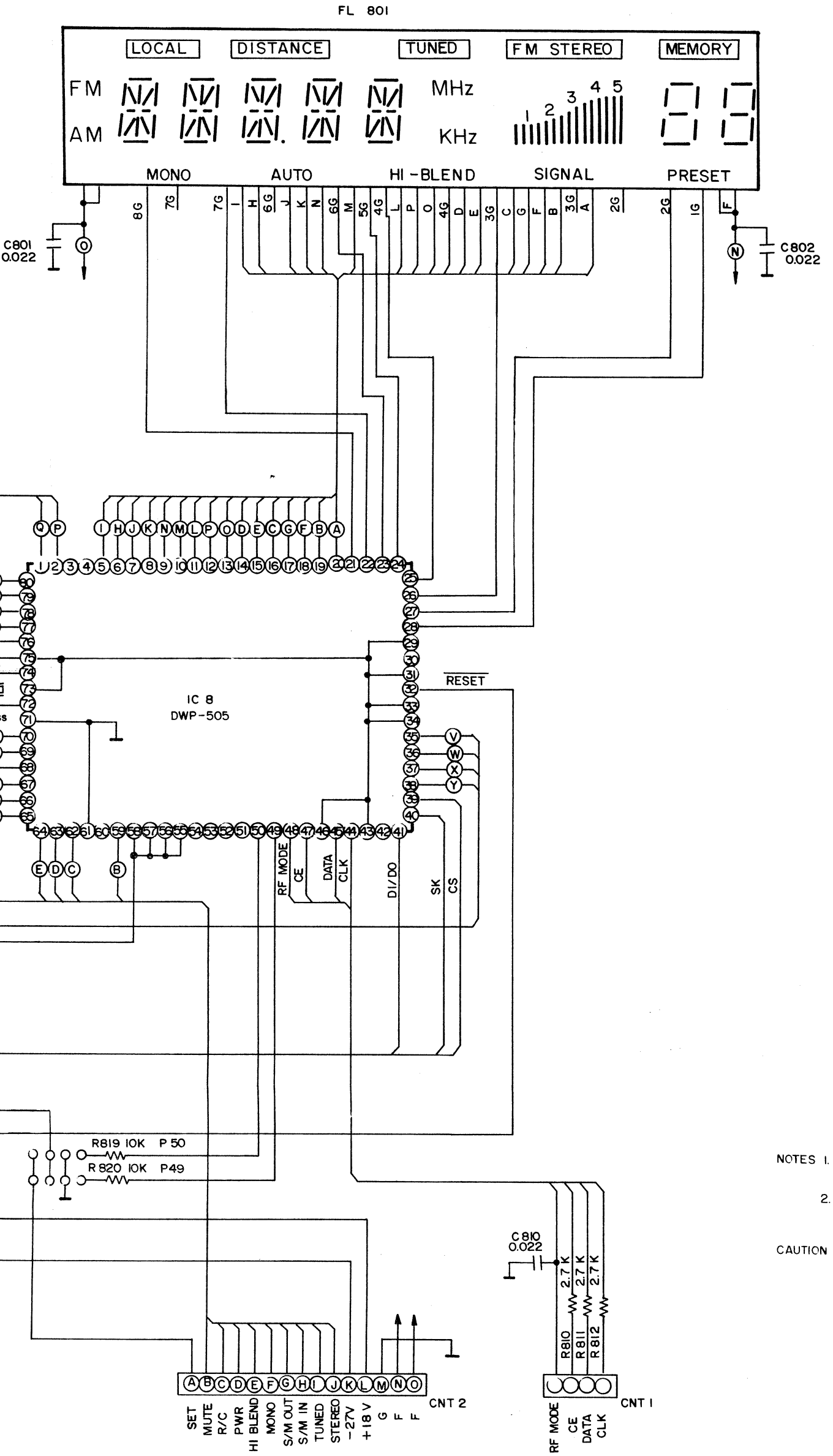


STEP (BAND)

	P50	P49
EUR 3	1	0
EUR 2	0	1
U.S.A	0	0
K.S	1	1

matic Diagram (II)

TX-3010C



NOTES 1. Resistance values are indicated in ohms unless otherwise specified (K = 1,000 M = 1,000,000)

2. Capacitance values are shown in microfarads unless otherwise noted (P = micro micro farads .)

CAUTION : Safety precautions to be followed during servicing

1) Since thoss parts marked with ⚠ are critical parts for safety use the one described parts list.

2) Before returning the receiver to the customer make appropriate leakage current or resistance measurements to determine that exposed parts are property insulated from the supply circuit.